

# Full-Tide

## Antimicrobial Peptide Based Feed Additive

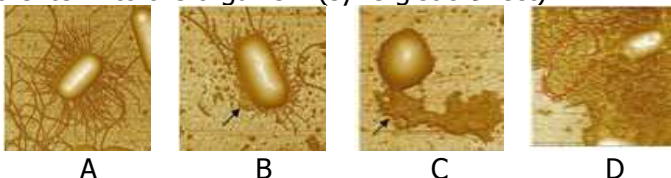
Antimicrobial peptides (AMPs, also called host defense peptides) are part of the innate immune system, which are components of a diverse starts of life, and which can directly kill pathogens in vivo. It was first discovered in 1980, by Swedish Scientist G. Bowman when inducing *Xigubi Antheraea* to produce *Cecropins* by injecting it with E. coli. Since then the research and study of AMPs have been widely carried out throughout the world, and some are already commercialized in the animal farming as an ideal natural source of substitute of antibiotics. Full-Tide is an AMP based feed additive developed and prepared by Guangdong Hinabiotech Co Ltd. It's recommended for use in farming animals as growth enhancer.

### Active Ingredients (as declared):

Bacillus subtilis 1.0 Billion unit/g min  
Saccharomyces boulardii 20000 IU/g min

### Action Mechanism and Function:

AMPs kill cells by disrupting membrane integrity (via interaction with negatively charged cell membrane), by inhibiting proteins, DNA and RNA synthesis, or by interacting with certain intracellular targets. Antibiotics work in the cytoplasm of the bacterium, AMPs help the antibiotic to enter into the organism (synergistic effect).



The action mechanism as shown from A to D

It has broad spectrum and strong antibacterial effect, even against drug-resistant pathogens. It resists proteinase activity, thus resistant to strong acidic and alkaline condition, very stable at high temperature (120°C).

### Application

- 1--For treatment of avian necrotic enteritis associated with *Clostridium perfringens*, and reducing wet faeces.
- 2--For enhancing the immunity system.
- 3--For control and prevention of intestinal bacterial infection.
- 4--For promoting the growth of animal and reducing FCR.

- ✓ **No concern of antibiotics residual**
- ✓ **No worry about cross resistance of Antibiotics Growth Promoters.**
- ✓ **No withdrawal period**
- ✓ **Excellent stability**

### Recommended Dosage

Mixed uniformly with feed before use

Animal species	Dosage (g/Mt of feed)
Meat poultry	80
Grower & finisher	80
Laying hen	50-80
Fish & shrimp	80-250g

**Packing:** 25kg/bag

**Shelf life:** 2 years after manufacturing date.

**Storage:** Store in cool and dry place, protect from direct sunlight.



Full-Tide is a trade name owned by Guangdong Hinabiotech Co Ltd.  
Huzhimpex is a registered trade mark owned by Huzhou International Trade Co Ltd

### HUZHOU INTERNATIONAL TRADE CO LTD

No.51 Taihu Road | Huzhou |  
Zhejiang Province |  
China

Email: [huzhimpex@vip.sina.com](mailto:huzhimpex@vip.sina.com)  
Fax: +86 571-56389299  
Skype: huzhimpex



Biotechnology Intestinal Health Food Safety